

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-4-WW-D-FO-4FT-S-835-ITL85131.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]ITL85131.001 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/10/15

[ISSUEDATE]02/10/17

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-WW-D-FO-4ft-S-835

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 8.1 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 10.3 WATTS

[ABSOLUTE]LUMENS]819

[OTHER]see www.finelite.com for source file ITL85131. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	8.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.94
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.27 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5281	4672	2362
55	5221	4626	2140
65	5356	4461	1894
75	4820	4553	1649
85	3031	3124	1445

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	285.322	285.322	285.322	285.322	285.322	285.322	285.322	285.322	285.322
2.5	300.468	299.240	295.146	289.006	286.140	277.134	275.088	271.813	268.538
5.0	315.205	312.749	304.971	294.327	284.912	269.766	261.579	255.439	250.936
7.5	328.304	325.029	314.386	298.421	282.865	261.579	248.070	237.836	232.924
10.0	341.403	336.491	322.164	301.287	280.000	252.573	233.743	220.643	214.094
12.5	353.275	347.953	329.532	303.333	276.316	243.158	219.415	203.041	196.082
15.0	365.965	359.006	336.082	304.561	271.813	233.333	204.678	185.848	178.070
17.5	377.018	368.830	341.813	304.152	266.491	223.099	190.351	169.064	160.058
20.0	387.661	378.246	347.134	303.333	260.760	212.047	176.023	152.690	144.094
22.5	397.076	386.023	351.637	301.287	253.801	200.994	162.515	137.544	128.947
25.0	405.673	392.982	354.912	298.421	246.023	189.532	148.596	123.216	114.620
27.5	412.632	398.713	357.368	295.146	238.246	178.480	135.497	110.117	101.930
30.0	417.953	402.807	358.596	291.053	229.649	167.427	123.216	98.246	90.468
32.5	420.000	405.263	358.596	286.140	219.825	155.965	112.164	87.193	79.825
35.0	417.544	404.854	357.368	280.819	210.409	145.322	101.520	77.368	70.409
37.5	412.632	399.942	354.912	274.678	200.585	134.269	91.287	68.363	61.813
40.0	404.444	392.164	350.819	267.719	189.942	123.626	81.053	59.766	54.035
42.5	392.982	381.930	343.450	259.942	178.889	113.801	72.456	52.398	46.667
45.0	376.199	367.602	332.807	251.345	168.246	103.977	63.860	45.439	40.117
47.5	357.778	350.409	320.526	241.930	156.784	94.152	56.082	38.889	34.386
50.0	338.538	330.760	305.789	232.105	145.731	85.146	48.713	32.749	28.655
52.5	320.117	311.111	287.778	221.462	134.678	76.140	41.754	27.427	23.743
55.0	301.696	291.871	267.310	209.181	123.626	67.544	35.205	22.105	18.830
57.5	285.731	274.678	246.842	197.310	112.573	58.947	29.474	17.602	14.327
60.0	266.901	256.257	227.193	183.801	101.520	51.170	24.152	13.099	10.643
62.5	249.298	237.836	208.363	168.655	90.877	43.801	18.830	9.415	6.959
65.0	228.012	218.596	189.942	152.281	80.643	36.433	13.918	5.731	3.684
67.5	206.316	198.947	172.339	135.497	71.228	29.474	9.415	2.865	1.228
70.0	182.982	177.251	155.146	118.304	60.994	23.333	5.322	1.228	1.228
72.5	156.374	153.918	137.544	102.749	51.579	17.193	2.047	1.228	0.819
75.0	125.673	127.310	118.713	87.193	42.982	11.462	1.228	0.819	0.819
77.5	92.515	97.427	98.655	74.503	34.386	6.550	1.228	0.819	0.819
80.0	61.813	66.316	75.731	61.404	26.608	2.047	0.819	0.819	0.819
82.5	40.526	41.754	49.942	47.485	19.649	0.819	0.819	0.409	0.409
85.0	26.608	26.199	27.427	32.339	12.690	0.819	0.409	0.409	0.409
87.5	12.690	12.690	12.281	13.918	6.550	0.409	0.409	0.409	0.409
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	103.34	N.A.	12.60
0-30	219.52	N.A.	26.80
0-40	361.84	N.A.	44.20
0-60	642.06	N.A.	78.40
0-80	802.40	N.A.	98.00
0-90	818.75	N.A.	100.00
10-90	791.87	N.A.	96.70
20-40	258.50	N.A.	31.60
20-50	406.87	N.A.	49.70
40-70	380.98	N.A.	46.50
60-80	160.34	N.A.	19.60
70-80	59.57	N.A.	7.30
80-90	16.35	N.A.	2.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	818.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.88
10-20	76.46
20-30	116.18
30-40	142.32
40-50	148.36
50-60	131.85
60-70	100.76
70-80	59.57
80-90	16.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

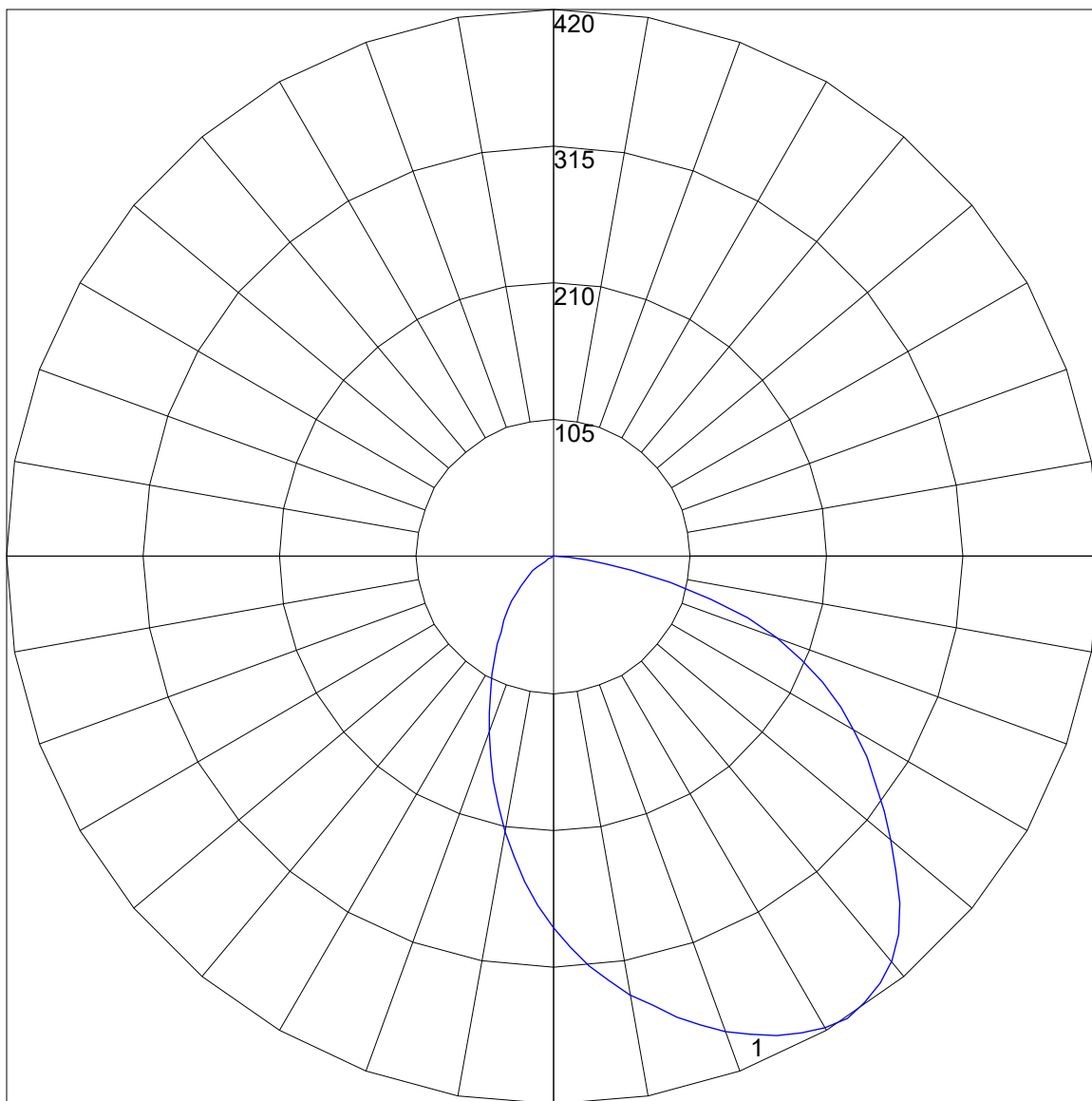
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 420 Located At Horizontal Angle = 0, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)